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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/843,339	04/26/2001	Fraser Keith Mc.Neil-Watson	A34263	8519	
21003 75	90 01/27/2006		EXAMINER		
BAKER & BOTTS			CHOI, LING SIU		
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	ART UNIT PAPER NUMBER	
•			1713		

DATE MAILED: 01/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

an

	Application No.	Applicant(s)				
	09/843,339	MC.NEIL-WATSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ling-Siu Choi	1713				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).				
Status						
 1) ☐ Responsive to communication(s) filed on 10 No. 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-53 is/are pending in the application. 4a) Of the above claim(s) 1-36 and 46-53 is/are 5) Claim(s) is/are allowed. 6) Claim(s) 37-45 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	withdrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on 27 December 2001 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examine 11.	re: a)⊠ accepted or b)□ objectodrawing(s) be held in abeyance. See drawing(s) be held in abeyance. See don is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☒ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/25/2002.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te atent Application (PTO-152)				

DETAILED ACTION

1. This Office Action is in response to the Response to Restriction Requirement filed November 10, 2005. Claims 37-45 of Group II have been elected without traverse.

Specification

2. The disclosure is objected to because of the following informalities: A subtitle of "Brief Description of the Drawing(s)" is missing.

Appropriate correction is required.

Claim Objections

3. Claim 37 is objected to because of the following informalities: (a) **claim 37**, lines 14-15, "at a first, relatively low, frequency" is suggested to be changed to --at a first relatively low frequency--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102/103

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office

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action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 37-45 are rejected under 35 U.S.C. 102 (b) as anbticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over DeRemigis (US 4,097,153).

A ca	A capillary particle electrophoretic mobility distribution determining apparatus		
com	comprising		
1	a holder for a capillary cell adapted to contain a dispersion		
2	a <u>light source</u>		
3	a <u>detector</u> adapted to detect light scattered from a detection zone of the capillary		
4	electric field generating electrodes adapted to generate an electric field in the		
	region of the detection zone		
5	a <u>controller</u> adapted to control the electric field applied by the electtrodes,		
	wherein the controller is adapted to apply an electric field at a first relatively low		
	frequency and at least a second relatively high frequency,		
	the first frequency being low enough that better velocity distribution resolution is		
	achieved than could be achieved at the second frequency and		
	the second frequency being high enough that the measured velocoity		

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distribution is substantially unaffected by electro-osmotic flow

a signal processor adapted to process the signals detected in use by the detector to determine a velocity mobility distribution, wherein the porocssor is adapted in use to modify the particle velocity distribution spectrum obtained at the first frequency by shifting it by an offset amount to remove the electro-osmotic velocity, the offset amount being determined using information from measurements at both the first and second frequencies of field reversal

(summary of claim 37)

DeRemigis discloses an apparatus to measure the electrophoretic mobility of particles suspended in a fluid medium, wherein the particles in a fluid medium are subjected to an electric field alternating between a first and second intensity under a coherent electromagnetic radiation to produce scattered radiation, the coherent radiation and the scattered radiation being directed to a detector to produce a spectrum of heterodyne signal in which the spectral composition with the first intensity of applied electric field is compared with the spectral composition obtained with the second intensity of applied electric field to provide a measurement of the electrophoretic mobility of the suspended particles (abstract; claim 1). It is noted that intensity is inversely proportional to frequency. Thus, the different intensities corresponds to the different frequencies. However, DeRemigis is silent on using two specifically different frequencies to remove the electro-osmotic velocity and obtain the electrophoretic mobility of particles. In view of the apparatus having substantial identical functions to measure the electrophoretic mobility, apparatus disclosed by DeRemigis using two

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electric fields having different intensities to measure electrophoretic mobility would lead

to remove electro-osmotic velocity. In turn, the two electric fields having different

intensities would fall into the claimed frequency difference. Since the PTO does not

have proper means to conduct experiments, the burden of proof is now shifted to

applicants to show otherwise. In re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977);

In re Fitzgerald, 205 USPQ 594 (CCPA 1980).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-

1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reach on 571-272-1114.

Leading

LING-SUI CHOI PRIMARY EXAMINER

January 17, 2006